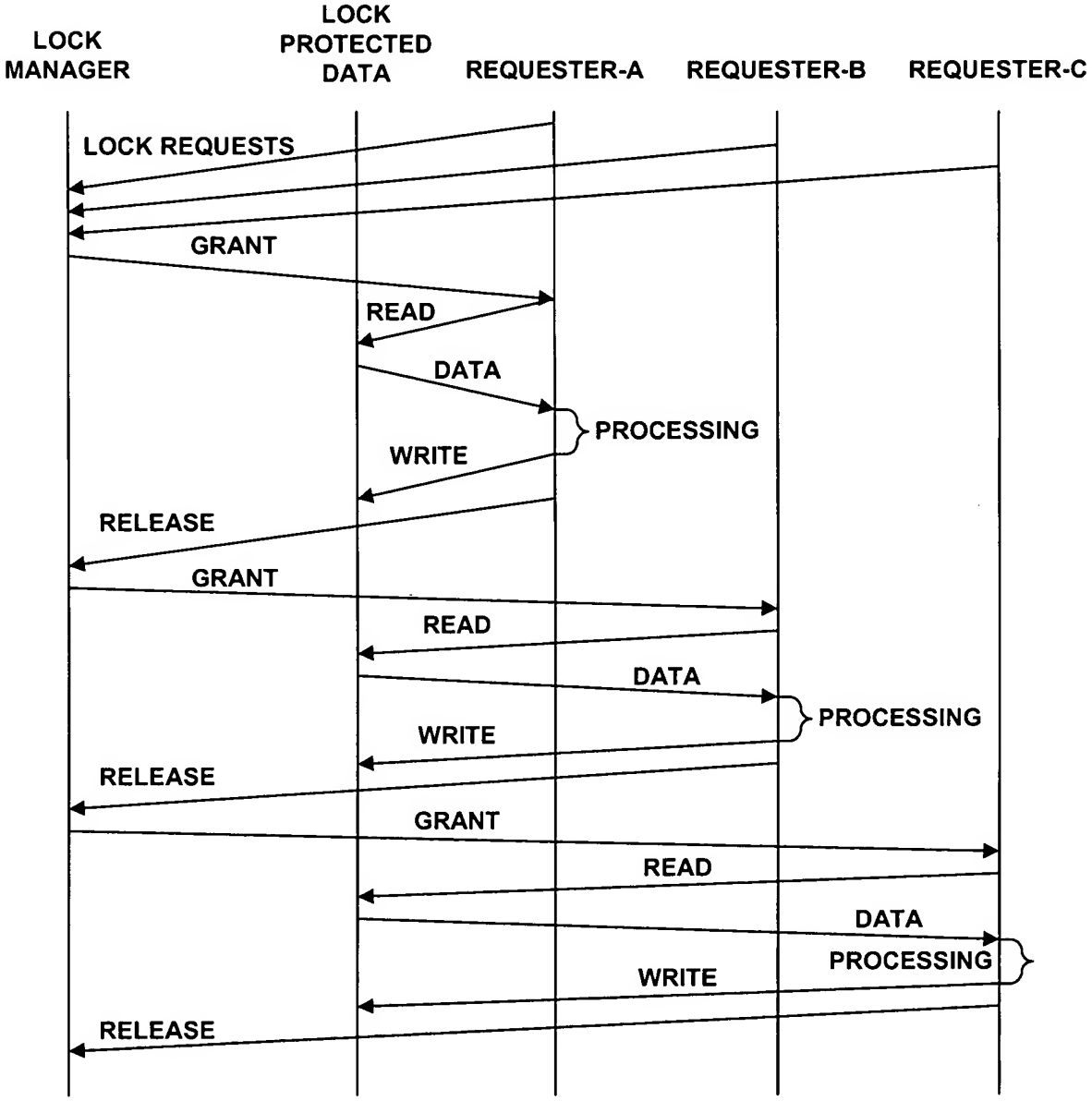


PRIOR ART
FIGURE 1

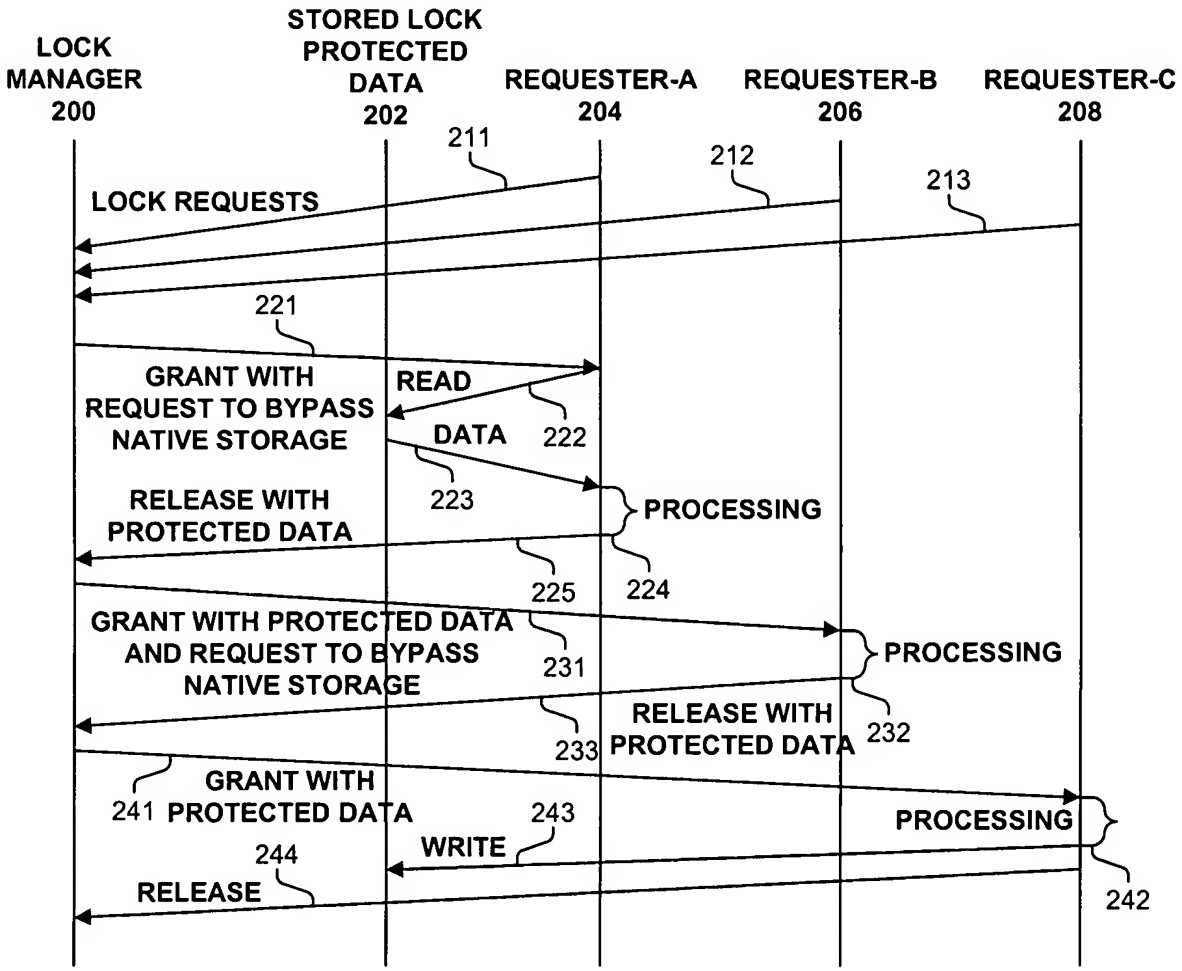
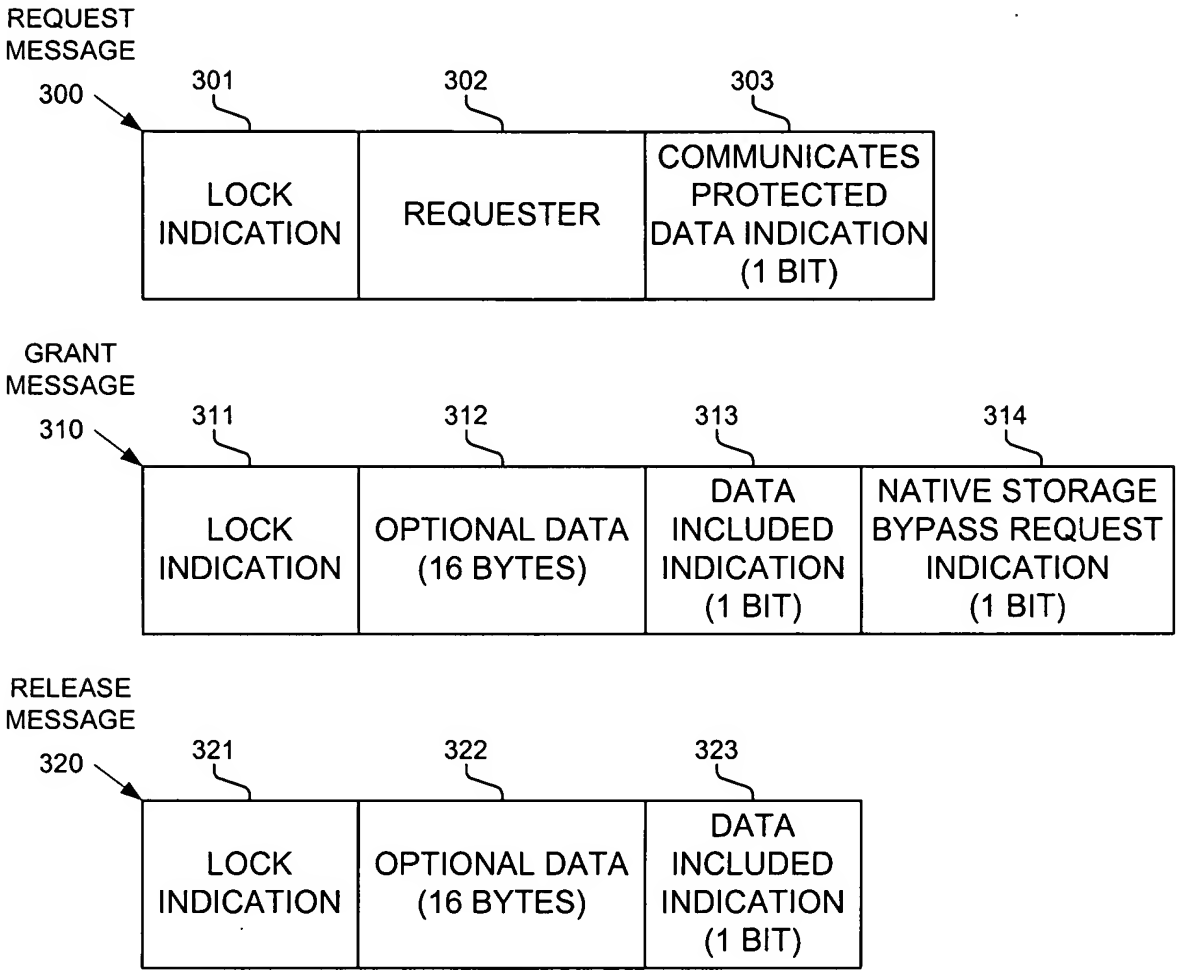
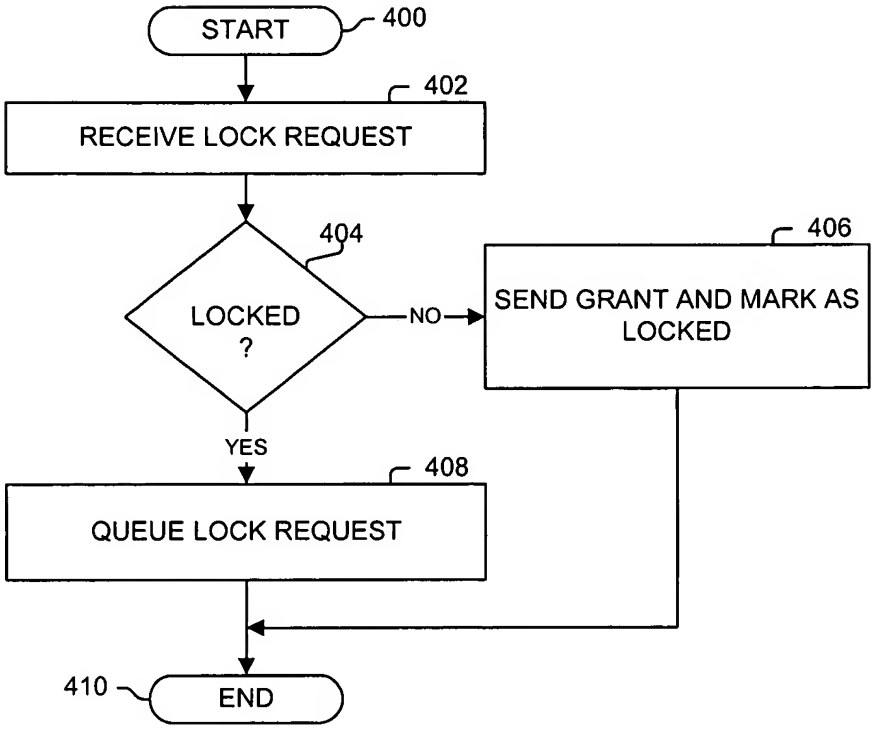

LOCK MANAGER 200
STORED LOCK PROTECTED DATA 202
REQUESTER-A 204
REQUESTER-B 206
REQUESTER-C 208
211
212
213
LOCK REQUESTS
221
GRANT WITH REQUEST TO BYPASS NATIVE STORAGE
READ
DATA
222
223
PROCESSING
RELEASE WITH PROTECTED DATA
225
224
GRANT WITH PROTECTED DATA AND REQUEST TO BYPASS NATIVE STORAGE
231
PROCESSING
RELEASE WITH PROTECTED DATA
232
233
241
GRANT WITH PROTECTED DATA
243
PROCESSING
WRITE
244
RELEASE
242

FIGURE 2

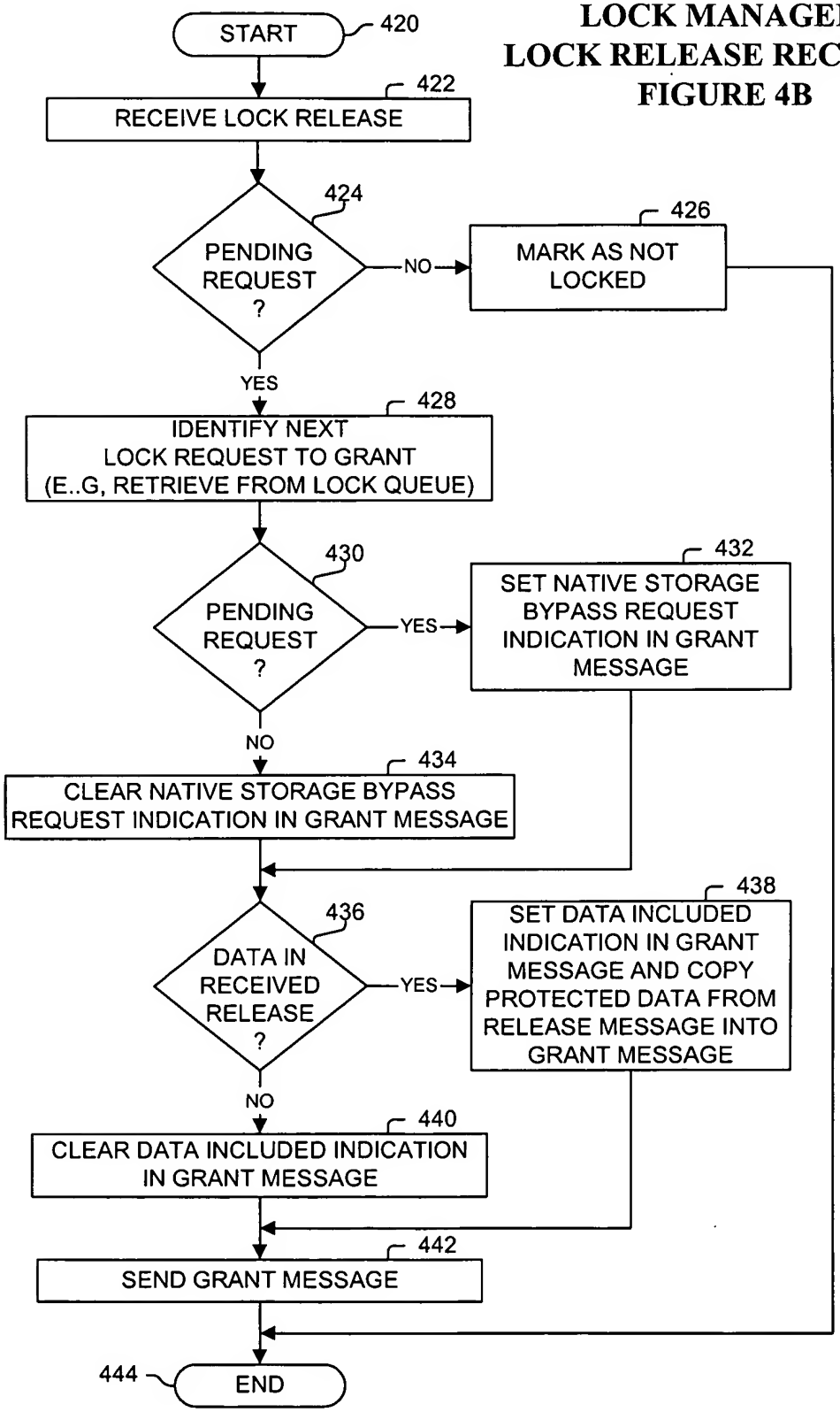


LOCK MESSAGES
FIGURE 3

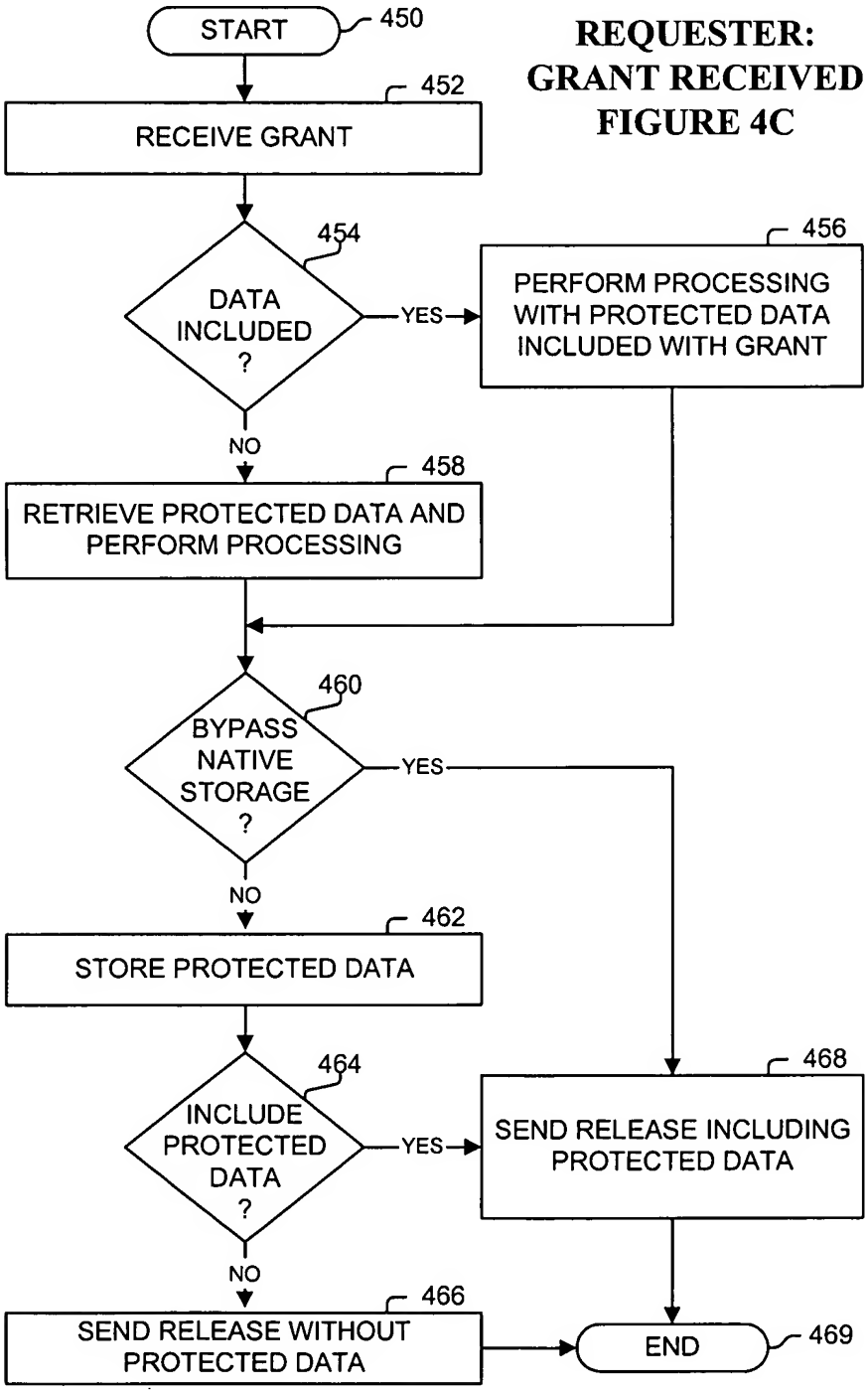


LOCK MANAGER:
LOCK REQUEST RECEIVED
FIGURE 4A

LOCK MANAGER: LOCK RELEASE RECEIVED
FIGURE 4B



REQUESTER: GRANT RECEIVED
FIGURE 4C



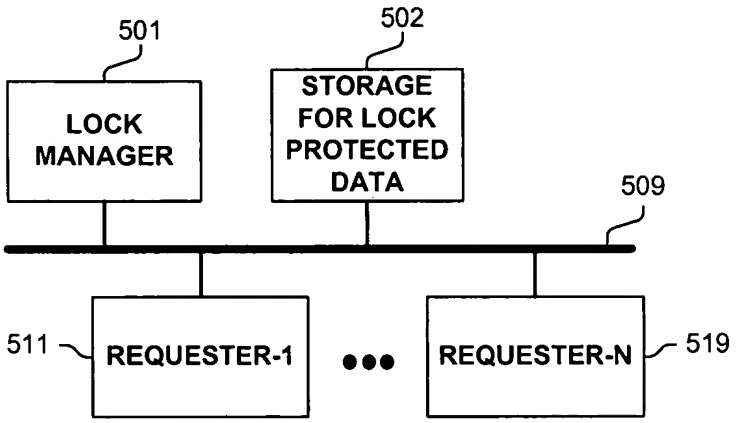


FIGURE 5A

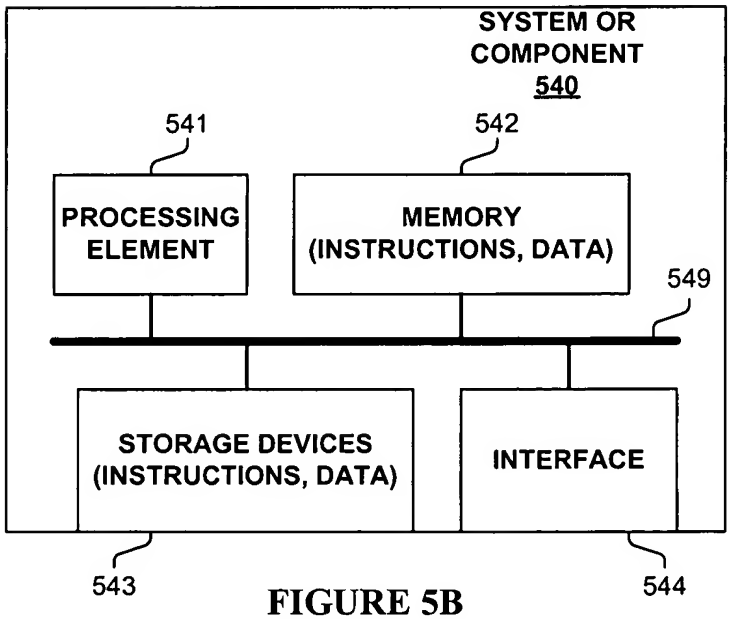


FIGURE 5B